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EXAMINER

TECKLU, ISAAC TUKU

ART UNIT

PAPER NUMBER

2192

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |  |  |
|------------------------------|--------------------------------------|--|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/676,837 | <b>Applicant(s)</b><br>CHERDRON ET AL. |  |
|                              | <b>Examiner</b><br>ISAAC T. TECKLU   | <b>Art Unit</b><br>2192                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 August 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 16-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 16-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. Claims 1-15 have been cancelled.
2. Claims 16-31 have been reexamined.

### ***Response to Arguments***

3. Applicant's arguments filed 08/26/2008 have been fully considered but they are not persuasive.

The Applicants argued “Kekic does not disclose ‘storing the run-time data structure in a storage area that relates to the controller,’ as recited in independent claim 16” (pages 3-4).

It appears applicant has failed to appreciate the “teachings” of Kekic and all that is inherent therein. Applicant repeatedly argues that Kekic fails to disclose “‘storing the run-time data structure in a storage area that relates to the controller,’ as recited in independent claim 16”. The Examiner disagrees. Kekic teaches structure based on the Model-View-Control (MVC) design pattern that is used in almost every GUI class library. The client structure has three types of loosely coupled objects: A model object represents the application object and its encapsulated data. A view object represents the object's visual appearance on the display screen, and a controller object defines the way the user interface reacts to user input and GUI events. Each client object falls into one of these three categories of objects. Herein, view

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objects are referred to as Screen part objects, controller objects as Screen objects and model objects as Target objects. Contrary to the above argument, Kekic teaches “Class Attribute is a sub-class of class MibObject. Class Attribute provides run time information such as polled value(s), previously polled value, and instance numbers if it is a table attribute. The polled value is stored as a string object if it is a leaf Attribute object. For a table Attribute object, a MibTableIndex object is constructed based on the instance number and table item. A TableValue object is constructed as well based on the polled value and its value type. The TableValue object is stored in the rowindexes Hashtable with the corresponding MibTableIndex object as a key” (emphasis added). The MibObject, rowindexes hashtable with corresponding MibTableIndex are related to the controller (col. 76:1-30 and e.g. FIG.6C). Thus it is respectfully submitted that the above argument is not persuasive and hence the rejection has been maintained as set forth in the Office Action.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claims 16-31 are rejected under 35 U.S.C. 102(a) as being anticipated by Kekic (US 6,664,978 B1).

As per claim 16, Kekic discloses a computer-readable medium containing instructions for controlling a data processing system to perform a method, for supplying data to a view presenting a model (e.g. FIG. 6A, element 102 and related text), the view having at least one user interface (UI) element (e.g. FIG. 6A, 312 and related text) and relating to a controller for manipulating the model (col. 55:25-35 "... MVC... screen and a controller ..."), the method comprising:

creating a run-time data structure in a storage area that relates to the controller, the runtime data structure being based on a design-time data structure (col.55:60-67 "... screen part object ... to controller object ..."), the design-time data structure including a structure element that is bound to the UI element (col. 55:30-60 "... controller object defines the way the UI reacts ... GUI events ..." and col.76:1-30 "... runtime information ... polled value is stored..." and e.g. FIG. 3, element 305 and related text);

storing the run-time data structure in a storage area that relates to the controller (col. 76:1-30 "... run time information ... stored ..." and e.g. FIG.6C); and

using a supply function to provide content for the run-time data structure (col. 55:60-67 "... controller object ... controlling contents of the screen part object ..." and e.g. FIG. 3A, 314 and FIG. 5A, 503 and 510 and related text).

As per claim 17, Kekic discloses a computer-readable storage device containing instructions for controlling a data processing system to perform a method, for accessing application data by an application using a model of the application and at least one controller

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for manipulating the model (col. 55:25-35 "... MVC... screen and a controller ..."), the method comprising:

providing a storage area that relates to the controller (col. 78:15-30 "... run time information ... stored ..."), the storage area being organized according to a design-time data structure having declared relationships between the application data, and storing a run-time data structure that is based on the design-time data structure (col.55:60-67 "... screen part object ... to controller object ...");

accessing a structure element of the run-time data structure, the structure element comprising a node collection (col. 56:45-60 "... object accessed through RMI ..." and e.g. FIG. 3B, 305 and related text);

evaluating the node collection; and if the result of evaluating the node collection requires filling at least one element of the node collection (col.64:5-25 "... if the node is a leaf node ..." and e.g. FIG. 3B, 305 and related text): sending a query to a computer system (col. 52:35-70 "... query the contents and receive ..."); and

in response to the query, receiving from the computer system at least one data instance that is used to fill the at least one element of the node collection (col. 53:15-45 "... instance is obtained by calling the class static ...").

Per claim 18, Kekic discloses a computer-readable storage containing instructions for controlling a data processing system to perform a method, the method comprising:

establishing a model, the model implementing application logic of an application (col. 55:25-35 "... MVC... screen and a controller ...");

establishing at least one view for presenting the model, the view comprising a user interface (UI) element which is bound to a first data structure (col. 55:25-35 "... MVC... screen and a controller ...");

establishing at least one controller for manipulating the model, the at least one controller relating to the at least one view (col. 55:25-35 "... MVC... screen and a controller ..."); and

establishing at least one storage area, the at least one storage area relating to the at least one controller and storing an instance of the first data structure element (col. 55:30-60 "... controller object defines the way the UI reacts ... GUI events ..." and col.76:1-30 "... runtime information ... polled value is stored..." and e.g. FIG. 3, element 305 and related text), the instance of the first data structure comprising data having been stored in the storage area by an access method associated with the at least one controller, the first data structure having been declared prior to execution of the application (col.55:60-67 "... screen part object ... to controller object ...").

Per claim 19, Kekic discloses the computer-readable medium of claim 18, wherein the instance of the first data structure comprises one or more node elements, each node element comprising one or more data fields based on the first data structure (.64:5-25 "... if the node is a leaf node ..." and e.g. FIG. 3B, 305 and related text).

Per claim 20, Kekic discloses the computer-readable medium of claim 19, wherein one or more of the node elements are grouped into a node collection (e.g. Fig. 7, controller 1 and related text).

Per claim 21, Kekic discloses the computer-readable medium of claim 20, wherein one or more of the node elements in the node collection are grouped into a node selection (e.g. FIG. 3B, 305 and related text).

Per claim 22, Kekic discloses the computer-readable medium of claim 21, wherein one of the node elements in the node selection is identified as a lead selection element (e.g. Fig. 7, controller 1 and related text).

Per claim 23, Kekic discloses the computer-readable medium of claim 22, wherein the UI element displays data from the lead selection element (e.g. FIG. 6A, 312 and related text).

Per claim 24, Kekic discloses the computer-readable medium of claim 18, wherein the access method is part of an application programming interface (API) for accessing the instance of the first data structure (e.g. FIG. 38B, SnmpAPI 3860 and related text).

Per claim 25, Kekic discloses the computer-readable medium of claim 18, wherein the method further comprises:

establishing an instance of a second data structure, the second data structure having been declared to be a child of the first data structure prior to execution of the application (col. 53:15-45 "... instance is obtained by calling the class static ...").

Per claim 26, Kekic discloses the computer-readable medium of claim 25, wherein the instance of the first data structure comprises one or more node elements of a first type grouped into a first node collection (col. 53:15-45 "... instance is obtained by calling the class static ..."), and the instance of the second data structure comprises one or more node elements of a second



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type grouped into a second node collection (col. 55:60-67 "... controller object ... controlling contents of the screen part object ..." and e.g. FIG. 3B, 305 and related text).

Per claim 27, Kekic discloses the computer-readable medium of claim 26, wherein one of the node elements in the first node collection is identified as a selected element, and wherein the node elements in the second node collection depend on the selected element (e.g. FIG. 3B, 305 and related text).

Per claim 28, Kekic discloses the computer-readable medium of claim 26, wherein the second node collection has a state (col. 55:60-67 "... controller object ... controlling contents of the screen part object ..." and e.g. FIG. 3B, 305 and related text).

Per claim 29, Kekic discloses the computer-readable medium of claim 28, wherein the state is selected from the group of valid, invalid, and unfilled (e.g. See table 9 "valid values are not displayed " and col. 53:15-45 "... instance is obtained by calling the class static ...").

Per claim 30, Kekic discloses the computer-readable medium of claim 29, wherein the method further comprises:

establishing a supply function for determining a content of the one or more node elements in the second node collection if the state of the second node collection is invalid or unfilled (e.g. FIG. 3A, 314 and FIG. 5A, 503 and 510 and related text).

Per claim 31, Kekic discloses the computer-readable medium of claim 30, wherein the supply function is implemented as a method of the at least one controller (col. 55:60-67 "...

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controller object ... controlling contents of the screen part object ...” and e.g. FIG. 3A, 314 and FIG. 5A, 503 and 510 and related text).

### ***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ISAAC T. TECKLU whose telephone number is (571)272-7957. The examiner can normally be reached on M-TH 9:300A - 8:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Examiner, Art Unit 2192

/Tuan Q. Dam/  
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